List of Publications by Year in descending order

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ΙΠΝΟΙΑΝ ΖΗΛΝΟ

#	Article	IF	CITATIONS
1	Analysis and design of a cylindrical magneto-rheological fluid brake. Journal of Materials Processing Technology, 2002, 129, 559-562.	3.1	176
2	Voltage hysteresis of lithium ion batteries caused by mechanical stress. Physical Chemistry Chemical Physics, 2016, 18, 4721-4727.	1.3	152
3	Diffusion induced stress in layered Li-ion battery electrode plates. Journal of Power Sources, 2012, 209, 220-227.	4.0	145
4	Analysis of multiple matrix cracking in [±Î,m/90n]s composite laminates. Part 1: In-plane stiffness properties. Composites, 1992, 23, 291-298.	0.9	144
5	Analysis of multiple matrix cracking in [±Î,m/90n]s composite laminates. Part 2: Development of transverse ply cracks. Composites, 1992, 23, 299-304.	0.9	85
6	In-situ damage evolution and micro/macro transition for laminated composites. Composites Science and Technology, 1993, 47, 107-118.	3.8	72
7	Role of material properties and mechanical constraint on stress-assisted diffusion in plate electrodes of lithium ion batteries. Journal Physics D: Applied Physics, 2013, 46, 105307.	1.3	69
8	Diffusion Induced Stresses in Cylindrical Lithium-Ion Batteries: Analytical Solutions and Design Insights. Journal of the Electrochemical Society, 2012, 159, A2060-A2068.	1.3	68
9	Effects of concentration-dependent elastic modulus on the diffusion of lithium ions and diffusion induced stress in layered battery electrodes. Journal of Power Sources, 2014, 248, 517-523.	4.0	62
10	Stiffness degradation induced by multilayer intralaminar cracking in composite laminates. Composites Part A: Applied Science and Manufacturing, 1999, 30, 683-706.	3.8	60
11	Delaminations induced by constrained transverse cracking in symmetric composite laminates. International Journal of Solids and Structures, 1999, 36, 813-846.	1.3	59
12	Role of polymeric binders on mechanical behavior and cracking resistance of silicon composite electrodes during electrochemical cycling. Journal of Power Sources, 2018, 387, 9-15.	4.0	55
13	In situ measurement of mechanical property and stress evolution in a composite silicon electrode. Journal of Power Sources, 2017, 366, 80-85.	4.0	51
14	The effect of elementary fibre variability on bamboo fibre strength. Materials & Design, 2015, 75, 136-142.	5.1	50
15	Strain energy release rate associated with local delamination in cracked composite laminates. Composites, 1994, 25, 851-862.	0.9	47
16	Cohesive zone modeling for crack propagation in polycrystalline NiTi alloys using molecular dynamics. Theoretical and Applied Fracture Mechanics, 2020, 105, 102402.	2.1	47
17	Selection of charge methods for lithium ion batteries by considering diffusion induced stress and charge time. Journal of Power Sources, 2016, 320, 104-110.	4.0	44
18	Wave propagation in orthotropic microtubules. Journal of Applied Physics, 2007, 101, 084702.	1.1	43

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19	Modeling of progressive delamination in a thin film driven by diffusion-induced stresses. International Journal of Solids and Structures, 2013, 50, 2495-2507.	1.3	43
20	EFFECT OF MAGNETIC FIELD ON PROPERTIES OF MR FLUIDS. International Journal of Modern Physics B, 2005, 19, 597-601.	1.0	34
21	A new temperature-dependent modulus model of glass/epoxy composite at elevated temperatures. Journal of Composite Materials, 2013, 47, 3303-3310.	1.2	33
22	Stress-limited fast charging methods with time-varying current in lithium-ion batteries. Electrochimica Acta, 2018, 288, 144-152.	2.6	32
23	Review on electrode-level fracture in lithium-ion batteries*. Chinese Physics B, 2020, 29, 026201.	0.7	32
24	On stress-induced voltage hysteresis in lithium ion batteries: impacts of material property, charge rate and particle size. Journal of Materials Science, 2016, 51, 9902-9911.	1.7	29
25	Effects of Hydrostatic Stress and Concentration-Dependent Elastic Modulus on Diffusion-Induced Stresses in Cylindrical Li-Ion Batteries. Journal of Applied Mechanics, Transactions ASME, 2014, 81, .	1.1	28
26	Crocodile skin inspired rigid-supple integrated flexible lithium ion batteries with high energy density and bidirectional deformability. Energy Storage Materials, 2022, 47, 149-157.	9.5	28
27	A three-phase cylindrical shear-lag model for carbon nanotube composites. Acta Mechanica, 2008, 196, 33-54.	1.1	27
28	A coupled electromechanical analysis of a piezoelectric layer bonded to an elastic substrate: Part I, development of governing equations. International Journal of Solids and Structures, 2003, 40, 6781-6797.	1.3	26
29	Effect of fiber volume fraction on the thermal and mechanical behavior of polylactideâ€based composites incorporating bamboo fibers. Journal of Applied Polymer Science, 2018, 135, 46148.	1.3	26
30	Characterization of microstructure in stitched unidirectional composite laminates. Composites Part A: Applied Science and Manufacturing, 2008, 39, 815-824.	3.8	24
31	Analysis of vibrational behaviors of microtubules embedded within elastic medium by Pasternak model. Biochemical and Biophysical Research Communications, 2012, 424, 89-93.	1.0	24
32	Effects of matrix cracking and hygrothermal stresses on the strain energy release rate for edge delamination in composite laminates. Composites, 1994, 25, 27-35.	0.9	23
33	Combined effect of relative humidity and temperature on dynamic viscoelastic properties and glass transition of poly(vinyl alcohol). Journal of Applied Polymer Science, 2013, 130, 3161-3167.	1.3	23
34	Diffusion of lithium ions and diffusion-induced stresses in a phase separating electrode under galvanostatic and potentiostatic operations: Phase field simulations. Mechanics of Materials, 2015, 91, 363-371.	1.7	23
35	Partial lithiation strategies for suppressing degradation of silicon composite electrodes. Electrochimica Acta, 2019, 295, 778-786.	2.6	23
36	Time to delamination onset and critical size of patterned thin film electrodes of lithium ion batteries. Journal of Power Sources, 2015, 289, 168-183.	4.0	22

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37	Micromechanical modelling of the progressive failure in unidirectional composites reinforced with bamboo fibres. Mechanics of Materials, 2016, 94, 180-192.	1.7	22
38	A modified pulse charging method for lithium-ion batteries by considering stress evolution, charging time and capacity utilization. Frontiers of Structural and Civil Engineering, 2019, 13, 294-302.	1.2	21
39	Real-time measurements of electro-mechanical coupled deformation and mechanical properties of commercial graphite electrodes. Carbon, 2020, 169, 258-263.	5.4	20
40	Analysis of diffusion induced elastoplastic bending of bilayer lithium-ion battery electrodes. Applied Mathematics and Mechanics (English Edition), 2016, 37, 659-670.	1.9	18
41	Modeling of Damage Evolution and Failure in Fiber-Reinforced Ductile Composites Under Thermomechanical Fatigue Loading. International Journal of Damage Mechanics, 2010, 19, 851-875.	2.4	17
42	Reducing diffusion induced stress in planar electrodes by plastic shakedown and cyclic plasticity of current collector. Journal of Power Sources, 2014, 263, 22-28.	4.0	16
43	Analysis of delamination in thin film electrodes under galvanostatic and potentiostatic operations with Li-ion diffusion from edge. Acta Mechanica Sinica/Lixue Xuebao, 2013, 29, 348-356.	1.5	15
44	Analysis of wave propagation in orthotropic microtubules embedded within elastic medium by Pasternak model. Journal of the Mechanical Behavior of Biomedical Materials, 2014, 30, 300-305.	1.5	15
45	Understanding the anisotropic strain effects on lithium diffusion in graphite anodes: A first-principles study. Physica B: Condensed Matter, 2018, 539, 66-71.	1.3	15
46	On stress-induced voltage hysteresis in lithium ion batteries: Impacts of surface effects and interparticle compression. Science China Technological Sciences, 2019, 62, 1357-1364.	2.0	15
47	Mechanical contact in composite electrodes of lithium-ion batteries. Journal of Power Sources, 2019, 440, 227115.	4.0	15
48	Modeling of Progressive Failure in Ductile Matrix Composites Including Local Matrix Yielding. Mechanics of Advanced Materials and Structures, 2009, 16, 522-535.	1.5	14
49	Analytical Model on Lithiation-Induced Interfacial Debonding of an Active Layer From a Rigid Substrate. Journal of Applied Mechanics, Transactions ASME, 2016, 83, .	1.1	14
50	Cyclically thermomechanical plasticity analysis for a broken fiber in ductile matrix composites using shear lag model. Composites Science and Technology, 2002, 62, 641-654.	3.8	13
51	A predictive approach to the in-plane mechanical properties of stitched composite laminates. Acta Mechanica Solida Sinica, 2007, 20, 130-140.	1.0	13
52	Application of the laminate plate theory to the analysis of symmetric laminates containing a cracked mid-layer. Computational Materials Science, 1998, 13, 195-210.	1.4	12
53	Two circular inclusions with inhomogeneously imperfect interfaces in plane elasticity. International Journal of Solids and Structures, 2005, 42, 2601-2623.	1.3	12
54	Scaling Analysis of the Tensile Strength of Bamboo Fibers Using Weibull Statistics. Advances in Materials Science and Engineering, 2013, 2013, 1-6.	1.0	12

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55	Prelithiation design for suppressing delamination in lithium-ion battery electrodes. Applied Mathematics and Mechanics (English Edition), 2021, 42, 1703-1716.	1.9	12

56 Buckling of embedded microtubules in elastic medium. Applied Mathematics and Mechanics (English) Tj ETQq0 0 0,rgBT /Overlock 10 Tf

57	Two-way coupled analysis of lithium diffusion and diffusion induced finite elastoplastic bending of bilayer electrodes in lithium-ion batteries. Applied Mathematics and Mechanics (English Edition), 2018, 39, 1567-1586.	1.9	10
58	Effects of stress dependent electrochemical reaction on voltage hysteresis of lithium ion batteries. Applied Mathematics and Mechanics (English Edition), 2018, 39, 1453-1464.	1.9	10
59	A coupled electromechanical analysis of a piezoelectric layer bonded to an elastic substrate: Part II, numerical solution and applications. International Journal of Solids and Structures, 2003, 40, 6799-6812.	1.3	9
60	A steady line heat source in a decagonal quasicrystalline half-space. Mechanics Research Communications, 2005, 32, 420-428.	1.0	9
61	Two-dimensional analysis of progressive delamination in thin film electrodes. Acta Mechanica Sinica/Lixue Xuebao, 2018, 34, 359-370.	1.5	9
62	A non-contact proximity sensor with low frequency electromagnetic field. Sensors and Actuators A: Physical, 2007, 135, 162-168.	2.0	8
63	Structural health monitoring of composite wind blades by fiber bragg grating. , 2007, , .		7
64	Phase field model of polarization evolution in a finite ferroelectric body with free surfaces. Acta Mechanica, 2013, 224, 1309-1313.	1.1	7
65	A sub-layer model for a thick piezoelectric patch bonded on elastic substrate. Acta Mechanica, 2004, 170, 163.	1.1	5
66	Electromechanical Interaction Behaviors of Piezoelectric Sensor and Actuator on Elastic Substrate. Journal of Intelligent Material Systems and Structures, 2005, 16, 589-595.	1.4	5
67	Predictive Approach to Failure of Composite Laminates with Equivalent Constraint Model. Acta Mechanica Solida Sinica, 2010, 23, 240-247.	1.0	5
68	Lithium Diffusion and Stress in a Polycrystalline Film Electrode. Acta Mechanica Solida Sinica, 2018, 31, 290-309.	1.0	5
69	Feigned death induced by partial delithiation in silicon composite electrodes. Journal of Power Sources, 2021, 495, 229763.	4.0	5
70	Prediction of compressive strength of z-pinned unidirectional composite laminates. Journal of Composite Materials, 2012, 46, 383-390.	1.2	4
71	Performance of the fiber Bragg grating sensors at cryogenic temperatures. , 2008, , .		2
72	Fiber Bragg Grating Sensors for Fatigue Monitoring of Composite. Polymers and Polymer Composites, 2013, 21, 553-560.	1.0	2

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73	A Comparative Study of Cohesive Law Shapes in Analytical Modeling of Interfacial Debonding in Lithium-Ion Battery Electrodes. Journal of Applied Mechanics, Transactions ASME, 2019, 86, .	1.1	2
74	Stress-Induced Uphill Diffusion with Interfacial Contact Loss in Solid-State Electrodes. Acta Mechanica Solida Sinica, 2022, 35, 113-128.	1.0	2
75	Design of Ultrathin Current Collectors via Cyclically Plastic Yield for Fabrication of High Capacity Lithium Ion Batteries. Journal of the Electrochemical Society, 2020, 167, 110557.	1.3	2
76	An Energy-Based Statistical Model for Multiple Fractures in Composite Laminates. International Journal for Multiscale Computational Engineering, 2003, 1, 327-348.	0.8	2
77	Theoretical and experimental characteristics on residual stresses of advanced polymer composites. , 2008, , .		1
78	Effect of Cryogenic Cycles on Mechanical Behavior of Glass/Epoxy Composite. Polymers and Polymer Composites, 2014, 22, 135-140.	1.0	1
79	Preface to Special Issue on Nonlinear Behaviors of Materials. Mechanics of Advanced Materials and Structures, 2009, 16, 503-503.	1.5	Ο
80	Model for temperature-dependence modulus of glass/epoxy composite. Proceedings of SPIE, 2012, , .	0.8	0
81	Influence of physical parameters on residual stresses of polymer composites during the cure process. Proceedings of SPIE, 2012, , .	0.8	Ο
82	Preface to special issue on nonlinear mechanics of solids. Archive of Applied Mechanics, 2015, 85, 321-321.	1.2	0